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TITLE: Robust speech recognition method in noisy
environments   .

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PRIORITY-DATA: 1997US-0978527 (November 25, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
US 5970446 A	October 19, 1999	N/A	009
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APPLICATION-DATA:

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INT-CL (IPC): G10L007/08

ABSTRACTED-PUB-NO: US 5970446A

BASIC-ABSTRACT:

NOVELTY - After receiving the speech, the amount of data related to the
noisy
environment is recorded. The recorded data is analyzed and atleast one
appropriate background noise model is selected on the basis of the
recorded
data. Speech recognition is performed based on the selected background
noise
model.

DETAILED DESCRIPTION - The background noise model is created by modeling .
atleast one background noise in the noisy environment. When the selected
model
is determined as incorrect, other background noise model is loaded for
performing speech recognition.

USE - For recognizing speech in noisy environments.

ADVANTAGE - Provides robust speech recognition in variety of noise
environments. The speech recognition system provides higher performance
and
lower error rate than current systems. Even when the error rate begins
to

approach an unacceptable level, automatic correction can be performed by switching to different models.

DESCRIPTION OF DRAWING(S) - The figure shows flowchart for determining proper
noise model.

CHOSEN-DRAWING: Dwg.2/4

TITLE-TERMS: ROBUST SPEECH RECOGNISE METHOD NOISE ENVIRONMENT

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